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MONTANA

ECONOMIC

INDICATORS

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# MONTANA ECONOMIC INDICATORS

AN ANALYSIS OF PAST AND PRESENT ECONOMIC TRENDS

MONTANA STATE EMPLOYMENT SERVICE

EMPLOYMENT SECURITY DIVISION

DEPARTMENT OF LABOR AND INDUSTRY

Prepared by: EMPLOYMENT SERVICE RESEARCH AND ANALYSIS BOX 1728 HELENA, MONTANA

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Employment, Hours and Earnings, and Labor Turnover data produced in cooperation with the Bureau of Labor Statistics and the Manpower Administration.

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The economy of the United States during the last quarter continued to defy the experts. While some economists predict a recession within six months, others are predicting a general economic slowdown and at worst a "growth recession". Whether or not the recession is severe or light, most economists agree that unemployment will increase, shortages and inflation will continue.

The fact that shortages and inflation appear to be having an impact on the economy already is reflected in the Consumer Confidence Index $\frac{1}{2}$  prepared by the University of Michigan, which took the sharpest drop in its 25-year history. Consumers are obviously becoming pessimistic.

As the nation goes, so should Montana. However, the value of Montana's indicators appears inconsistent with the national mood, and inconclusive at this time as to the direction of Montana's economy. Montanans may rest assured, however, if the nation slumps into a recession, it will be felt by Montanans as harshly and for a longer period of time than the rest of the nation because of the state's lack of industrialization.

Only a few of Montana's indicators match national trends. Average weekly hours and accessions are down. Layoffs are down somewhat from the previous year. Average weekly initial claims showed sharp increases over last year, but in the month of August the large increase was due mainly to the end of the forest fire season and subsequent layoff of firefighters.

Building permits are down nationally but continued to grow in Montana. The number of permits is expected to decline in the near future, but the actual work on the buildings will begin in 1974 so the construction industry will probably not be hit as hard as other industries in the event of a recession. Naturally, with the growth in the number of building permits, the dollar valuation has increased but inflation would have caused an increase, regardless.

<sup>1/</sup> TIME, October 29, 1973, page 113.

#### ANALYSIS 1973 (Cont.)

Average weekly insured unemployed remained level with last year. One encouraging note is found in the unemployment rate which dropped substantially from last year's level.

Manufacturing employment displayed moderate growth as did the nonagricultural employment index. Civilian work force index also shows a very moderate growth.

Bank debits reached their highest level in the state's banking history. This, however, is due almost entirely to inflation. Nonagricultural placements are showing definite growth over the past few years. Montana's composite index shows only slight improvement over last year but this trend is not expected to continue because of recession trends.

The brightest spot in Montana's economic picture is the farm index. Even though prices paid by farmers continued to grow, prices received shot out of sight. It is this sector of the economy that is basically responsible for the \$9 million plus surplus in the state coffers.

Average hourly earnings continued a very slow rate of growth which should be encouraging but is not. All it means to the wage earner is that his raise put him in a higher tax bracket, more tax dollars are being taken from him, and he has not kept up with inflation. Lumber and wood products employment is about level with last year.

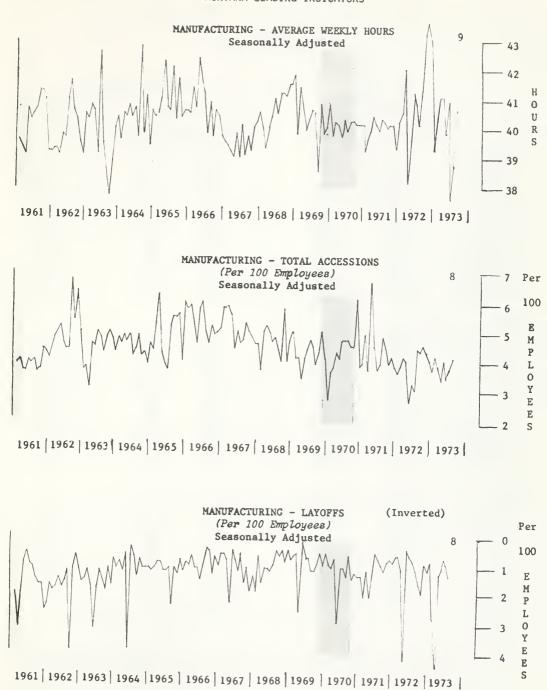
New corporations in Montana continued to grow over previous years while dissolutions and withdrawals remained relatively insignificant in number.

What does all the foregoing mean? With inconsistent trends in the various indicators offsetting one another, it is difficult to draw valid conclusions at this time except that inflation, periodic shortages of goods and services, and tight money conditions will probably continue into 1974.

## 1971 1972 1973

	Avera	Manufacturing- Average Weekly Hours		Average Accessions		Manufacturing- Layoffs (Per 100 Employees)	
	UNADJUSTED	ADJUSTED	UNADJUSTED	ADJUSTED	UNADJUSTED	ADJUSTED	
1971 January February March April May June July August September	40.3 39.4 39.7 39.7 40.2 39.4 39.9 41.2 40.5	40.1 39.6 39.9 40.4 40.1 39.9 40.3 40.2 40.0	3.4 2.1 5.3 5.4 5.0 7.2 5.6 4.4 4.6	4.9 3.7 6.6 4.5 3.7 3.9 4.8 4.4	2.4 1.1 1.4 1.1 0.4 0.6 0.8 1.4 0.9	2.1 1.2 2.1 1.4 0.6 0.8 1.0 1.2	
October November December	40.3 39.9 39.5	40.1 40.1 39.3	4.5 2.1 2.0	4.1 3.8 3.6	1.2 1.2 0.9	0.8 0.9 0.7	
January February March April May June July August September October November December	40.5 40.4 41.7 37.4 37.3 40.7 40.4 41.1 41.8 43.6 43.4	40.2 40.5 42.0 38.1 37.2 41.2 40.8 40.1 41.3 43.4 43.6 43.0	2.6 2.3 3.2 3.1 4.4 5.6 5.1 4.3 5.3 4.6 2.2 2.5	3.8 4.1 4.0 2.6 3.2 3.0 4.4 4.3 4.5 4.5 4.2	0.9 1.1 2.9 0.4 0.5 0.7 0.9 2.0 2.1 1.4 1.7	0.7 1.2 4.3 0.5 0.7 0.9 1.2 1.7 2.0 1.0 1.2	
January February March April May June July August September October November December	40.3 40.8 40.3 39.9 40.5 37.3 39.8 41.2	39.3 40.4 41.0 41.0 39.8 41.0 37.6 38.8 40.7	2.6 2.3 3.1 3.9 5.4 6.4 4.2	3.7 4.1 3.8 3.3 3.9 3.5 3.8 4.2	1.0 2.8 3.1 1.1 .7 .5 .7	.8 3.1 4.6 1.4 1.0 .7 .9	

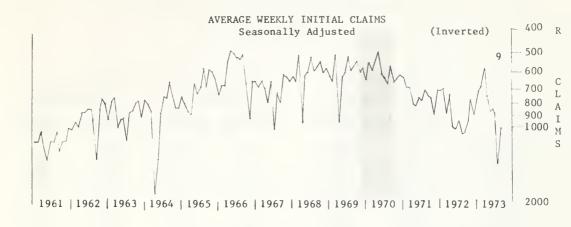
NOTE: Seasonally adjusted data and the use of indexes are provided for statistical analysis only and should not be confused with actual numbers. See Glossary.

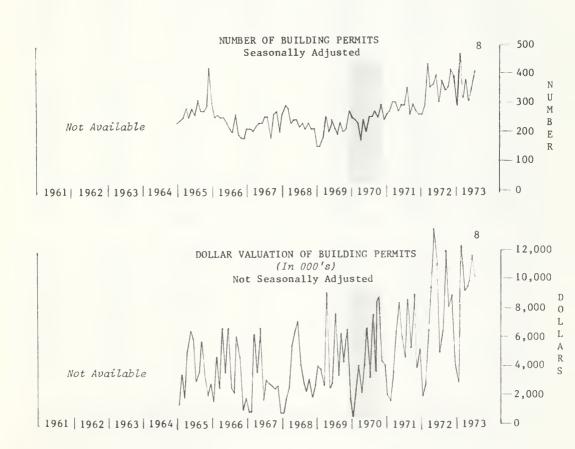


## 1971 1972 1973

			В	uilding Per	mi ts
	Average Initial		Numb	er	Valuation (In 000's)
1071	UNADJUSTED	ADJUSTED	UNADJUSTED	ADJUSTED	UNADJUSTED
January February March April May June July August September October November December	1,195 912 849 705 450 543 534 967 849 735 901	586 703 741 730 763 828 827 1,863 1,608 958 755 761	106 153 277 443 364 406 382 410 357 387 228 136	274 289 311 319 287 306 309 365 277 309 280 276	\$ 2,123 1,740 3,742 6,418 8,426 6,162 4,780 8,693 5,370 9,046 4,044 5,243
January February March April May June July August September October November December	1,428 883 1,003 712 585 667 611 563 555 713 919 1,465	709 690 871 737 992 1,017 946 1,085 1,051 931 770 887	105 159 398 514 473 532 392 437 454 452 344	273 302 448 365 372 401 317 389 352 361 423 276	\$ 2,067 2,740 6,531 9,527 13,566 11,160 5,043 6,533 12,834 8,244 8,994 4,572
1973 January February March April May June July August September October November December	1,443 885 673 728 516 561 632 769 555	717 692 588 754 875 855 978 1,482 1,051	152 155 433 463 483 419 436 462	396 296 487 329 380 315 352 411	4,102 2,967 12,254 9,398 9,528 9,851 11,637 10,258

NOTE: Seasonally adjusted data and the use of indexes are provided for statistical analysis only and should not be confused with actual numbers. See Glossary.





## MONTANA COINCIDING INDICATORS

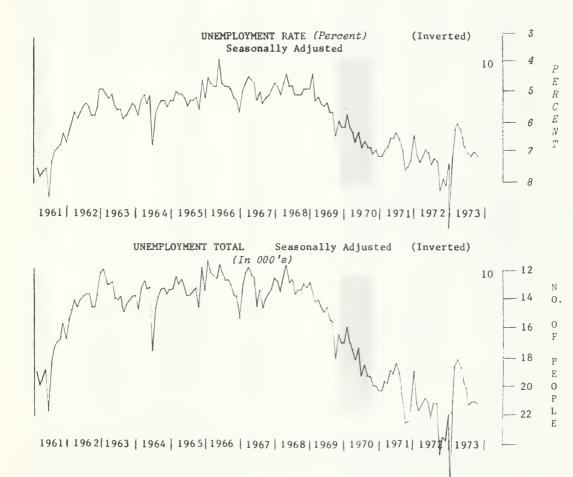
## 1971 1972 1973

	Average Insured Un		Unemploym (Perc		Unemployme ( <i>In Thou</i>	
	UNADJUSTED	ADJUSTED	UNADJUSTED	ADJUSTED	UNADJUSTED	ADJUSTED
January February March April May June July August September October November December	9,033 9,116 8,533 6,636 4,332 3,609 3,978 5,442 4,229 4,888 5,926 7,377	4,893 4,750 4,807 5,132 5,226 6,410 7,339 11,880 10,625 11,111 8,394 6,002	8.8 9.0 8.3 7.0 5.8 7.1 6.2 5.9 5.7 5.3 6.2 7.2	6.9 6.8 6.5 6.5 6.3 6.5 6.9 7.6 7.5 7.3 6.4 7.1	23.7 24.5 23.1 20.3 17.1 22.5 19.8 18.9 16.9 15.3 18.2 20.9	19.7 19.8 18.9 19.1 18.5 19.1 20.5 22.6 22.5 21.4 19.0 21.3
January February March April May June July August September October November December	9,582 12,269 8,744 6,588 5,197 4,077 4,542 4,424 3,642 4,979 6,370 8,582	5,191 6,393 4,926 5,095 6,284 7,242 8,380 9,659 9,150 11,341 9,023 6,983	9.3 9.3 8.8 7.5 6.8 7.7 6.5 6.4 5.9 5.9 7.2 9.7	7.3 7.1 6.9 7.0 7.4 7.2 7.3 8.3 7.9 8.1 7.4 9.4	26.0 26.3 25.6 22.4 20.5 24.9 20.4 20.6 17.7 17.0 20.9 28.1	21.7 21.3 20.9 21.1 22.2 21.2 21.2 24.7 23.6 23.8 22.0 28.9
January February March April May June July August September October November December	11,050 10,244 7,796 6,886 4,914 3,671 4,506 4,437 3,718	5,986 5,338 4,392 5,326 5,942 6,520 8,314 9,688 8,118	9.2 8.1 7.7 6.7 6.0 7.4 6.3 5.6 5.3	7.2 6.2 6.0 6.2 6.5 6.8 7.1 7.2 7.1 7.2*	26.2 23.1 22.2 19.8 18.2 23.8 20.5 17.7 15.8 15.2	21.9 18.7 18.2 18.7 19.7 20.2 21.3 21.2 21.1 21.2

NOTE: Seasonally adjusted data and the use of indexes are provided for statistical analysis only and should not be confused with actual numbers. See Glossary.

<sup>\*</sup> Forecast.





## MONTANA COINCIDING INDICATORS

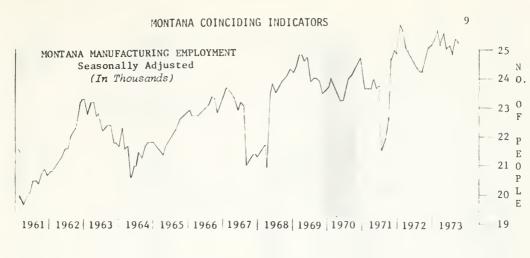
## 1971 1972 1973

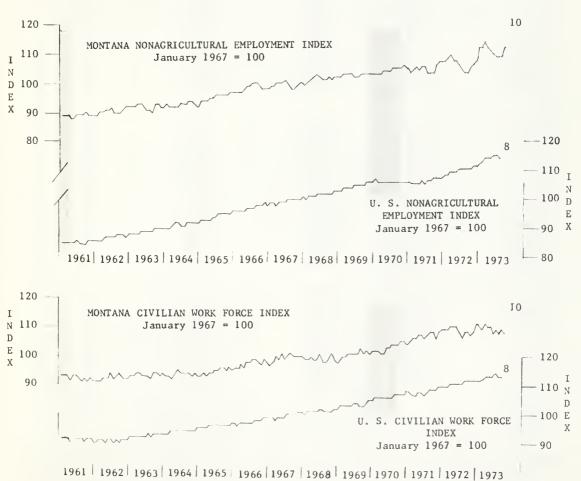
				INDEX: 1	967 = 100	
Montana Manufacturing Employment (In Thousands)			Nonagricultural Employment INDEX		an INDEX	
		IADJUSTED	Montana*	<u>U. S.</u>	Montana*	<u>U. S.</u>
January February March April May June July August September October November	23.7 23.7 24.0 23.7 23.8 21.6 22.0 22.7 24.7 25.0	23.0 22.8 22.8 22.8 23.2 24.4 22.5 22.8 23.2 25.5 25.4	104.8 105.7 106.5 105.9 106.3 106.3 104.2 104.3 104.9 107.3	106.7 106.6 106.5 106.6 107.1 106.8 107.4 107.6 108.0 108.2	105.3 106.5 106.2 107.0 107.1 106.8 107.7 108.7 108.6 106.8 108.4	108.2 107.8 107.9 108.2 108.6 107.9 108.6 109.1 109.2 109.5 110.0
December	24.9	24.9	108.4	108.7	109.3	110.1
January February March April May June July August September October November December	25.9 25.7 25.1 25.0 24.8 24.6 24.4 24.3 24.3 24.3 24.8 25.1 25.2	24.8 24.7 24.1 24.0 24.3 25.2 25.4 25.2 24.9 25.6 25.4 25.2	108.7 109.0 110.6 108.9 108.2 107.3 105.6 104.7 104.0 106.2 107.2 108.2	109.4 109.5 110.2 110.4 110.8 111.2 111.1 111.2 111.5 111.6 112.0 112.2	109.3 109.6 110.7 110.7 110.2 108.9 106.2 108.8 108.1 107.0 108.0 111.5	110.7 110.6 111.5 111.4 111.7 111.9 112.4 112.6 112.8 112.5 112.8
January February March April May June July August September October November December	25.4 25.7 25.2 25.5 25.0 25.1 24.8 25.3 25.2	24.6 24.7 24.3 24.2 24.5 25.7 25.9 25.9	112.1 112.7 114.0 112.1 111.5 110.0 109.3 109.0 109.2 112.5**	112.1 113.0 114.0 114.3 114.5 115.2 115.0 114.8	111.2 110.9 111.7 110.3 110.7 108.2 109.9 108.4 109.2 108.5	112.4 113.2 114.1 114.2 114.3 115.0 114.8 114.6

NOTE: Seasonally adjusted data and the use of indexes are provided for statistical analysis only and should not be confused with actual numbers. See Glossary.

<sup>\*</sup> Revised to 1972 Benchmarks.

<sup>\*\*</sup> Forecast.



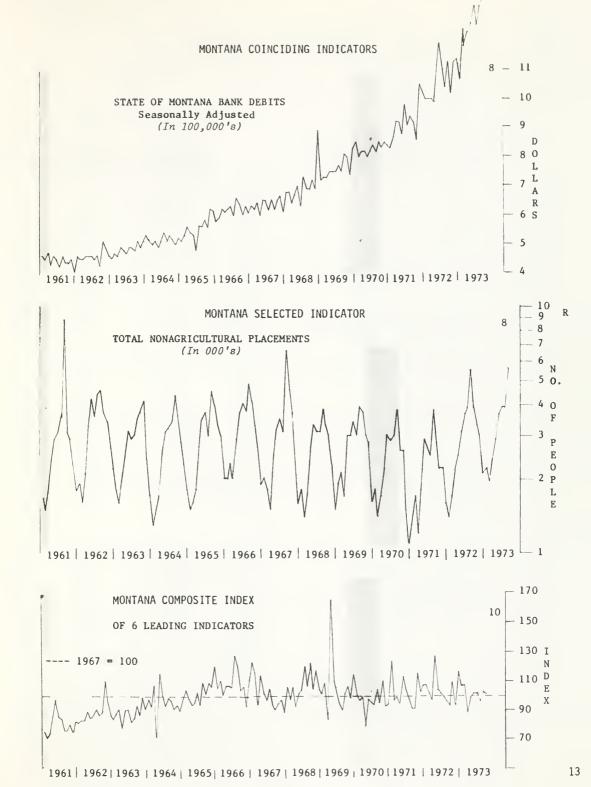


MONTANA	MONTANA	MONTANA
COINCIDING	SELECTED	COMPOSITE
INDICATORS	INDICATOR	INDEX
1971 1972 1973	1971 1972 1973	1971 1972 1973

1071	State of Bank D (In 100 UNADJUSTED	ebits	Total Nonag. Placements (In 000's)	Composite Index* 6 Leading Indicators 1967 = 100
1971 January February March April May June July August September October November December	874.1 770.0 893.9 890.8 821.5 991.8 909.9 895.1 920.6 937.2 1,139.5 1,160.3	835.7 877.0 924.4 926.0 883.3 986.9 916.3 948.2 929.9 862.2 1,053.1 1,037.8	1,359 1,736 1,272 1,834 2,966 2,720 2,561 3,810 2,844 2,292 2,214 1,678	125.0 97.6 99.2 95.7 113.4 104.6 98.2 91.0 91.9 115.2 102.4 107.8
January February March April May June July August September October November December	1,044.3 960.8 1,030.9 961.9 1,112.7 1,113.4 1,036.3 1,074.8 1,013.7 1,238.6 1,235.4 1,202.9	1,008.0 1,091.8 1,066.1 1,000.0 1,196.4 1,107.8 1,043.6 1,138.6 1,023.9 1,139.4 1,141.7	1,496 1,746 2,202 2,513 3,197 3,715 3,931 5,516 3,941 3,362 3,075 2,100	107.8 102.0 97.3 117.1 104.7 101.6 99.2 96.1 93.8 103.5 108.0
1973 January February March April May June July August September October November December	1,333.0 1,043.5 1,221.7 1,230.4 1,259.8 1,265.4 1,341.2 1,345.6	1,286.7 1,186.8 1,263.4 1,279.0 1,354.6 1,259.1 1,350.6 1,425.5	2,228 1,922 2,411 2,936 3,747 3,914 3,972 5,738	116.0 106.0 107.4 89.6 99.3 102.9 102.0 97.7 103.0 101.0**

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\*\* Forecast.



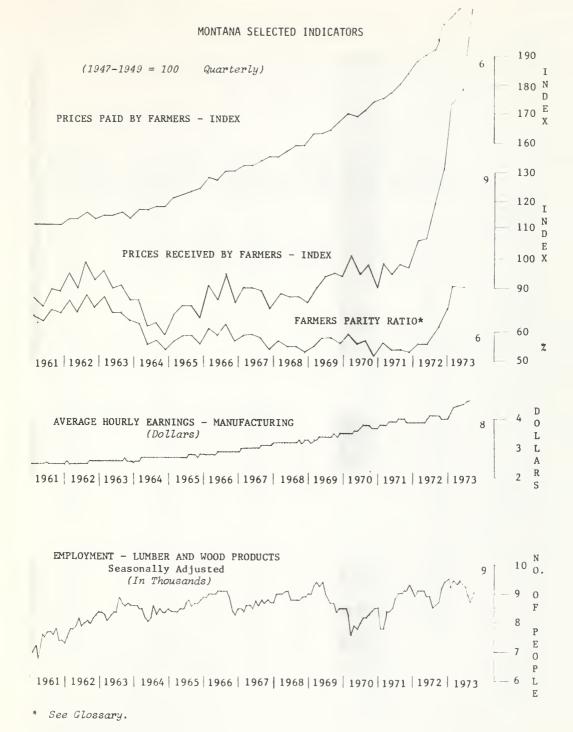
## MONTANA SELECTED INDICATORS

1971 1972 1973

1971 1972 1973

	(194	1 PRICE IND 17-1949=100	)	Average Hourly	Employment	
	Prices <u>Paid</u>	Prices Received	Parity Ratio*	Earnings <u>Manufacturing</u>	UNADJUSTED	
1971				(Dollars)	(In Thou	isands)
13/1				January 3.81	7.7	7.8
1st Qtr.	175	98	56	February 3.85	7.6	7.8
				March 3.88	8.0	8.4
2-1-04	177	95	54	April 3.90	7.6	8.4
2nd Qtr.	177	95	54	May 3.94 June 3.96	8.1 9.0	8.5 8.8
				July 4.02	9.4	9.0
3rd Qtr.	180	98	54	August 3.99	9.6	9.0
****				September 4.09	9.6	9.1
				October 3.90	9.7	9.1
4th Qtr.	184	97	53	November 3.90	9.4	9.3
				December 3.96	9.2	9.1
1972				1972		
1372				January 3.93	8.8	8.9
1st Qtr.	188	106	56	February 3.93	8.8	9.1
				March 3.95	8.7	9.1
				April 3.98	8.2	9.1
2nd Qtr.	190	107	56	11ay 4.04	8.5	8.9
				June 4.10 July 4.14	9.1 8.9	8.9 8.5
3rd Qtr.	192	119	62	August 4.11	9.1	8.6
जाव एटा :	172	113	O'L	September 4.11	9.2	8.7
				October 4.01	9.5	9.2
4th Qtr.	197	131	66	November 4.07	9.7	9.4
				December 4.08	9.0	9.5
1973				1973		
1973				January 4.24	9.1	9.2
1st Qtr.	206	153	75	February 4.39	9.1	9.4
				March 4.40	8.9	9.3
				April 4.39	8.5	9.4
2nd Qtr.	215	158	74	May 4.42	8.8	9.3
				June 4.53 July 4.62	9.4 9.2	9.2 8.9
3rd Qtr.		214		July 4.62 August 4.63	9.3	8.7
Jid Qti.		214		September	9.5	9.0
				October	3.0	
4th Qtr.				November		
				December		

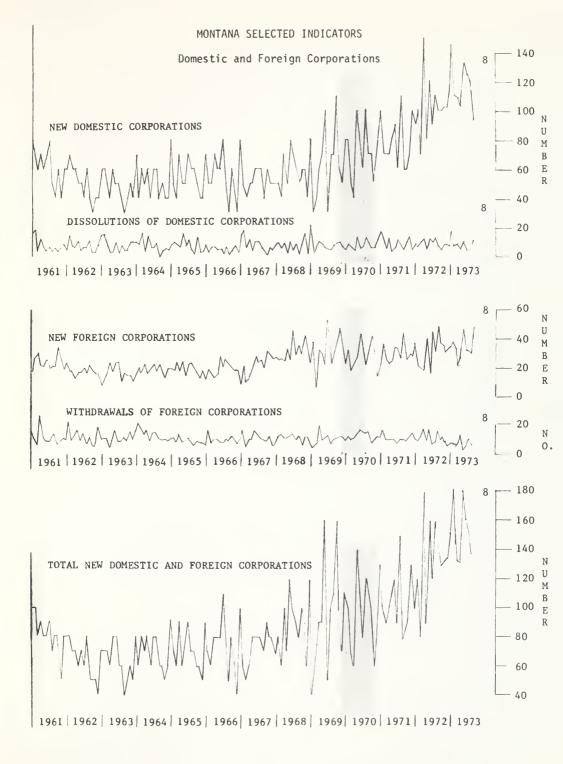
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## MONTANA SELECTED INDICATORS

## 1971 1972 1973

1971	New Domestic Corporations	Dissolutions of Domestic Corporations	New Foreign Corporations	Withdrawals of Foreign Corporations	Total New Domestic and Foreign Corporations
January February March April May June July August September October November December	73 67 74 78 87 63 108 58 64 70 97	12 5 12 4 5 11 8 5 10 13 5	25 21 23 33 31 25 43 26 28 26 36 21	12 6 6 6 4 6 6 5 7 10 6	98 88 97 111 118 88 151 84 92 96 133
January February March April May June July August September October November December	101 67 146 76 118 88 111 100 99 102 102	6 9 11 5 11 10 12 7 4 8 8	18 17 39 15 43 30 47 35 34 31 33	5 7 13 5 13 2 4 11 6 10 6 8	119 84 185 91 161 118 158 135 133 133 135
January February March April May June July August September October November December	146 112 110 104 134 126 120 87	18 8 9 6 11 5 4 11	36 32 23 28 47 35 31 49	7 6 8 12 3 5 9	182 144 133 132 181 161 151





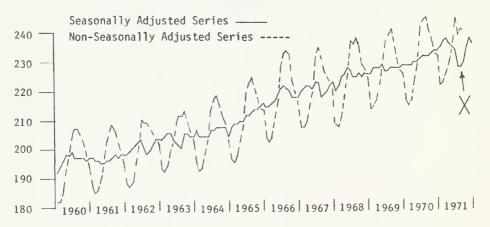
## APPENDIX I

GLOSSARY

<u>Seasonal Adjustment</u> - A mathematical procedure in which certain monthly or yearly variations such as climate, holidays, vacation practices, etc., are removed from the statistics. The purpose of this is to simplify analysis over a long period of time and to highlight such non-seasonal occurances as strikes, natural disasters, floods, earthquakes, etc.

<u>Mon-Seasonally Adjusted</u> - or "raw" data will not always reflect such occurances precisely because of seasonal influences. For example, the following chart is a graph of total nonagricultural employment for the State of Montana for the years 1960 to 1971.





Note the erratic nature of the non-adjusted data, and that a non-seasonal phenomena occurred in 1971 directly above the "X" mark. During this period a labor-management dispute occurred and the seasonally adjusted figures emphasize this point whereas the dispute is not readily apparent in the non-adjusted data. A word of caution is due at this point about non-adjusted and adjusted data. Adjusted data is not a "substitute" for actual data, and should in no way be used as such.

Economic Indicators - Statistical time series whose cyclical characteristics are known and fairly stable, particularly in the timing of their cyclical peaks and troughs relative to business cycle turns. Economic Indicators are used for the interpretation of current, and the anticipation of prospective, business conditions.

<u>Leading Indicators</u> - An economic series that tends to reverse direction sufficiently in advance of changes in total business activity. The peaks and troughs of this type of indicator generally occur from three to several months previous to the peak or trough in total business activity.

<u>Coincidental Indicators</u> - An economic series that tends to parallel the same general pattern of total business activity.

<u>Selected Indicators</u> - A cyclical time series whose true value as an economic indicator is not yet known.

<u>Lagging Indicators</u> - An economic series that tends to reverse direction (reach its peaks or troughs) some time after the total business pattern has changed.

Other Indicators - A statistical series that combines the cyclical changes of the other types of economic indicators. For example, personal income generally lags at the peaks, and leads at the troughs of total business activity.

Montana Composite Index - An aggregate of six leading indicators: Building Permits; Manufacturing - Employment, Average Weekly Hours, Total Accessions, and Layoffs; and Average Weekly Initial Claims. A reverse trend was used for Layoffs and Average Weekly Initial Claims. This composite index is in no manner or form comparable to the United States composite index as published in "Business Conditions Digest", U.S. Dept. of Commerce. The two indexes do not contain the same data, and the Dept. of Commerce used weighted figures while Montana's index used unweighted figures.

<u>Labor Turnover</u> - The movement of wage and salary workers into and out of employment status.

<u>Accessions</u> - All permanent or temporary additions to the employment rolls, which include new hires and other accessions.

<u>New Hires</u> - Permanent and temporary additions to employment rolls of persons who have never been employed by a specific reporting establishment. This includes former employees who have been rehired although not specifically recalled by the reporting employer.

Other Accessions - Additions to the employment rolls of transfers from other establishments of the same company; employees returning from military service or unpaid leaves of absence; employees specifically recalled by an employer.

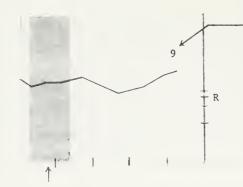
<u>Separations</u> - The termination of employment of persons who quit, are laid off, discharged, retire, die, are inducted into the military for service exceeding 30 consecutive days, suffer physical disabilities, or are transferred to other establishments of the same company.

<u>Quits</u> - The termination of employment initiated by an employee for any reason other than retirement, transfer, or service in the Armed Forces.

<u>Layoffs</u> - Suspension from pay status of an employee, expected to last seven consecutive days. This action must be initiated by the employer without prejudice to the worker, for reasons such as lack of orders, model changeover, termination of seasonal employment, inventory-taking, plant breakdown, technological changeover, shortage of materials.

APPENDIX II

KEY



Arabic numbers above graph lines indicate the last month of the year for which data have been plotted.

"R" indicates that the scale is a ratio (semilogarithmic) scale. All others are arithmetic scales.

Shaded areas on the graph indicate recession periods in the United States as designated by the National Bureau of Economic Research.

Broken lines on graphs indicate that data is not available for that time period.

Montana's indicators have been classified into three types; Leading, Coinciding, and Selected. The classification of Montana's Leading and Coinciding Indicators parallels the Department of Commerce, Bureau of Economic Analysis classification. This has been done to facilitate an easier and more accurate comparison of individual indicators with those of the nation. (This classification, however, does not mean that the Montana Employment Service has endorsed any particular economic theory.)

Historical data available upon request.

